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(54) **Title:** USE OF ISLET GLUCOSE-6-PHOSPHATASE RELATED PROTEIN AS A DIAGNOSTIC TOOL AND THERAPEU-
TIC TARGET FOR AUTOIMMUNE DIABETES

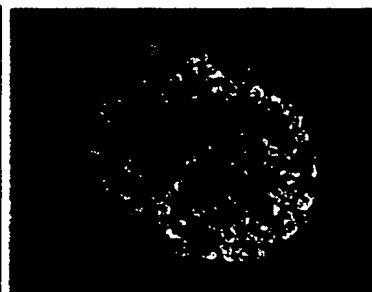
INSULIN



IGRP



GLUCAGON + IGRP



(57) **Abstract:** A method and compositions for detecting autoimmunity to islet glucose-6 phosphatase related protein (IGRP). De-
tection of IGRP autoantibodies alone, and in combination with other molecules such as the 65-kDa form of glutamate decarboxylase
(GAD₆₅), insulin and insulin granule membrane proteins ICA512 (IA-2) and phogrin (IA2 β) auto-antigens, provides an effective and
reliable chemical assay for the diagnosis of autoimmune (type 1) diabetes. Additionally, this invention provides therapeutic regimens
based on IGRP and related molecules for the amelioration of the diabetic clinical condition. Therefore, IGRP alone or in combina-
tion with other autoimmune diabetes associated antigens such as insulin, IA-2 and GAD₆₅, is useful in the prediction (diagnosis),
treatment (therapy), and prevention (prophylaxis) of diabetes.

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